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(54) FRONT WHEEL DRIVING DEVICE FOR
RUNNING VEHICLE

(57) Abstract:

PURPOSE: To improve assembly precision and make a gear chamber compact by integrally and freely rotating a sun gear and a bevel gear on the output side of a bevel gear mechanism on a steering wheel shaft, and supporting the inner end of the steering wheel shaft on a bearing provided on the wall of an outside gear case.

CONSTITUTION: The rotation of a steering wheel driving shaft 1 is transferred to a turning center shaft 5 by a bevel gear mechanism 17, the rotation of the shaft 5 is transferred to a sun gear 34 by a bevel gear mechanism 34, and a steering wheel shaft 11 is largely decelerated and driven by a planetary reduction mechanism 29. The sun gear 34 and a bevel gear 18 on the output side of the bevel gear mechanism 17 are integrally and freely rotated on the steering wheel shaft 11, the inner end of the steering wheel shaft 11 is supported

on a bearing 12 provided on the wall 4c of an outside gear case 4, thus assembly precision is improved, a gear chamber 4a is designed into a compact shape, and the outside gear case 4 is prevented from being largely protruded to the lateral outside.

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